



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **06113442 A**(43) Date of publication of application: **22.04.1994**(51) Int. Cl. **H02H 3/16**(21) Application number: **04259806**(22) Date of filing: **29.09.1992**(71) Applicant: **SHIN KOBE ELECTRIC MACH CO LTD**(72) Inventor: **ISHIKAWA TOSHIAKI****(54) GROUND-FAULT DETECTION CIRCUIT OF DC CURRENT-FEEDING CIRCUIT****(57) Abstract:**

PURPOSE: To provide the ground-fault detection circuit, of a DC current-feeding circuit, wherein it can detect a DC ground-fault part without stopping the feed of an electric current to a DC load and its cost is low.

CONSTITUTION: A DC ground-fault detector 102 which detects the ground fault of the branch circuit of a DC current-feeding circuit which feeds DC electric power to DC loads 106 to 108 from a DC power supply 101 via branch circuits 109 to 111 is installed across outputs of the DC power supply 101. As the DC ground-fault detector 102, a detector whose detection sensitivity is changed by a change in the resistance value of a measuring circuit is used. A parallel circuit wherein a very-small-resistance circuit composed

of diodes D1 to D4 is connected in parallel with switch circuits SW11 to SW23 for short circuit use which short-circuit the very-small-resistance circuit when a short circuit is measured is connected in series in the halfway part of at least positive-pole side lines for the individual branch circuits.

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